

## A New Subspecies of *Ambulyx japonica* Rothschild (Lepidoptera, Sphingidae) from Korea

Hiroshi INOUE

Biological Laboratory, Otsuma Women's University, Musashino, Sayamadai,  
Iruma City, Saitama Pref., 358, Japan

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**Abstract** A new subspecies: *Ambulyx japonica koreana* is described from north and South Korea.

**Key words** Lepidoptera, Sphingidae, *Ambulyx*, misidentification.

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### INTRODUCTION

*Ambulyx japonica* Rothschild, 1894 (type-locality: Kiushiu [Kyushu], South Japan) was first recorded from Korea by Alphéraky, 1897, in Romanoff, Mém. Lépid. 9: 166, based on a female. It is at present divided into two subspecies: subsp. *japonica* from Japan and subsp. *angustifasciata*\* (Okano) from Taiwan (cf. Inoue, 1973, Bull. Fac. domest. Sci. Otsuma Wom. Univ. 9: 108, pl.1: 4; pl.7: 54; pl.10: 89). Since the Korean representative is clearly distinguished from the two subspecies cited above, I will describe it as a new subspecies hereunder.

Before going further I express my hearty thanks to Prof. Dr. K. T. Park, Kangwon National University, for his gift of specimens and for giving me informations on specimens examined by him at the two institutions cited below. I also thank Dr. T. Shirôzu for a female from Jejudo and Dr. J.-M. Cadiou for a male from northern territory.

### DESCRIPTION

*Ambulyx japonica koreana* subsp. nov.

*Oxyambulyx japonica*: Lee, 1973, Cheong Ho-Rim. ent. Lab., Note, Ser. 2: 2; id., 1982, in Illust. Flora & Fauna Korea, Vol. 26, Insecta (VIII): 212, pl.9: 31.

Colour of wings more similar to subsp. *japonica* than to subsp. *angustifasciata*. Usually male of *japonica* has lateral dark spots on 6th and 7th tergite absent, while in *koreana* those on 7th stergite are

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\* Inoue & Lin, 1992, in Heppner & Inoue, Lepid. Taiwan 1 (2), Check List: 157, misspelt as *angustipennis*.

either smaller than in *japonica* or absent as in *angustifasciata*. Forewing with the blackish band between antemedian and median lines much thicker than in *japonica*, its proximal margin sharply angled outward in cell, while in *japonica* the angle is usually blunt and in *angustifasciata* it is much weakly so than in the other two, distal margin of the band very close to the cell-end stigma, while in *japonica* the margin and inner postmedian line are nearly equal in distant from them, the stigma is usually heavier in *koreana* than in the two subspecies on upper and under surface.

A Chinese male (from Shaanxi) illustrated by Zhu & Wang, 1983, in *Icon. Heteroc. sinica* 4: 393, pl.121: 2829, belongs to subsp. *koreana* from its maculation. However, a male illustrated by the same authors, 1980, *Econ. Fauna China*, Fasc. 22: 35, pl.3: 19, under the same species name is a misidentification of other species unidentifiable for me, but the line drawing of the valva (pl.17: 19) seems to be *japonica*.

Type-series. Holotype: ♂, Mt. Odae, Gangwon Prov., 26. VII. 1989 (K. T. park), in the Center for Insect Systematics, Kangwon National University, Chuncheon, Korea. Paratypes: Same data as holotype, 1 ♂, Mt. Samag-san, Gangwon Prov., 22. V. 1990, (K. T. Park); 4 ♂, Gwangleung, Gyunggi Prov., 3. VI. 1988, (K. T. Park); 2 ♂, as above, 13. V. 1985, (K. J. Won); 2 ♂, as above, 31. V. 1986, (K. T. Park & M. K. Ko); 1 ♂, Hongcheon, Gangwon prov., 20. V. 1988 (D. K. Choi); 1 ♀, as above, 21. V. 1988, (K. T. Park), in the Center for Insect Systematics. 7 ♂, Mt. Chiag-san, Gangwon Prov., 23. VI. 1977 (K. R. Choi); 1 ♂, Gwangleung, Gyunggi Prov., 15. V. 1975 (K. T. Park); 3 ♂, Mt. Nejang-san, Jeonnam Prov., 11. VI. 1975 (K. R. Choi); 2 ♂ Mt. Gyeryong-san, Chungnam Prov., 31. V. 1975 (K. R. Choi), in the Department of Entomology, Institute of Agricultural Sciences, Suweon, Korea. 1 ♀, Shiitake-goya, 800 m, Mt. Hanra (=Hanna), Jeju-do, 14. VII. 1968 (T. Shirôzu & N. Nishida); 1 ♂, Mt. Myohang-san, Myohang-San Valley, N. Korea, 24-30. VI. 1985 (E. Palik); 1 ♂, Mt. Odae-san, 23. V. 1980 (K. T. Park); 1 ♂, Mt. Daedoon-san, Chungnam Prov., 18. V. 1990 (K. T. Park), in the British Museum (Natural History), London.

Distribution. Korea (North & South), Central China.

## 박각시과의 1新亞種, *Ambulyx japonica koreana*(나비목) 기재

H. INOUE

日本 大妻女子大學 生物學研究室

남, 북한 각 지역으로 부터 채집된 재료를 대상으로 비교검토한 결과 박각시과의 1新亞種 *Ambulyx japonica koreana* subsp. nov.을 기재발표한다.

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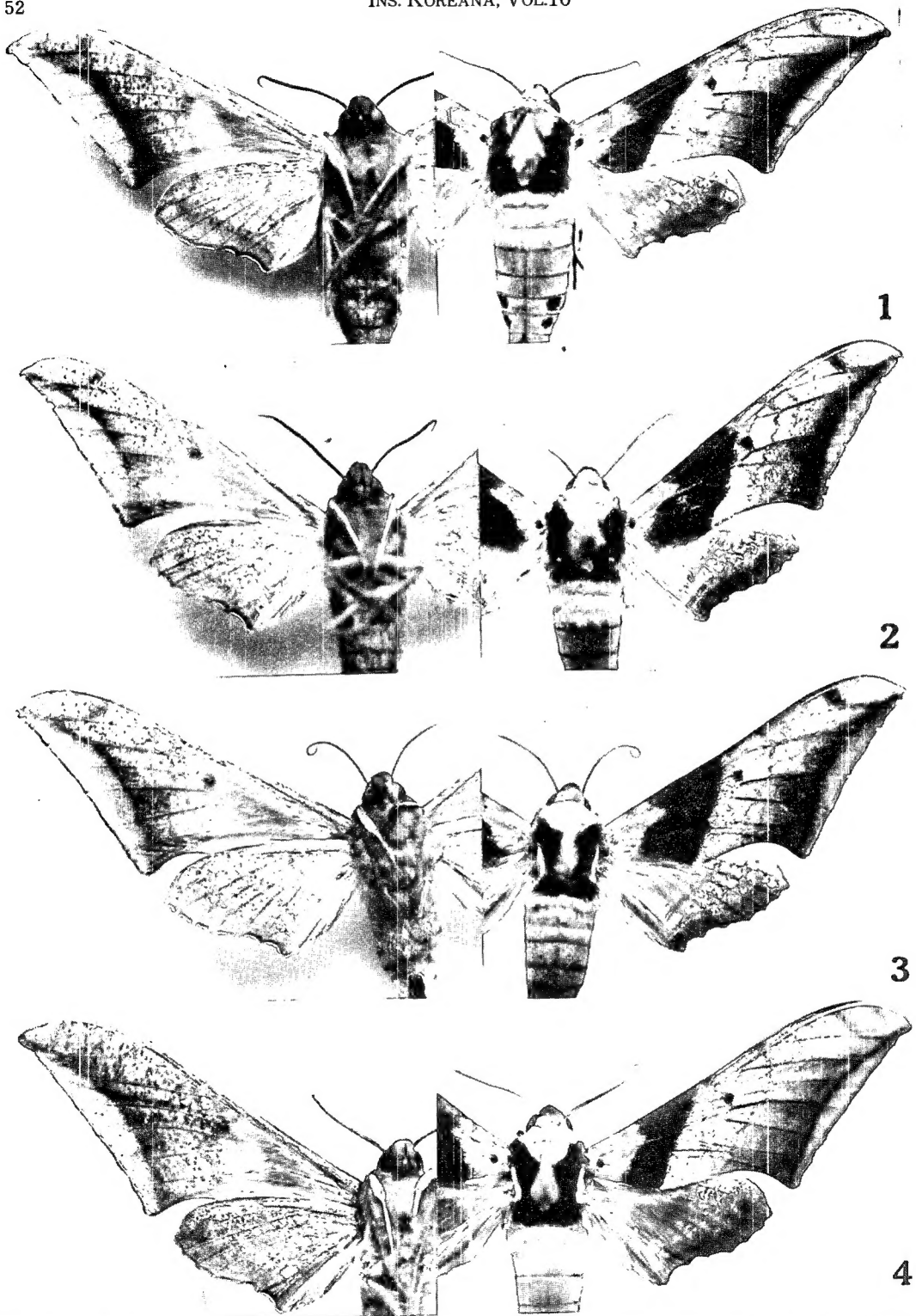


Fig. 1-4. *Ambulyx japonica* Rothschild (left: under & right: upper surface): 1, subsp. *japonica*, ♂; 2, subsp. *koreana*, paratype ♂; 3, subsp. *koreana*, paratype ♀; 4, subsp. *angustifasciata*, ♂.